

On the West, masses gather on the squares and in the churches, on the East, crowds gather on the stadiums and in the mosques cheering, chanting and praying. Stink of sweat and loud noise is all around - not the ambient I personally prefer when addressing to the Supreme Being. It looks like God is attached to the specific locations instead ubiquitous. Not me - I pray anywhere: mostly through my scientific work.

Man has always needed the God. While fleeing from prehistoric beasts, he knelt down for the first time and prayed. He didn't know who he was praying to, he didn't know how to pray, he just, exhausted and scared, got down on his knees and instinctively! folded his hands in front of his chest, crying out: salve, Dei. It was some inarticulate speech, not Latin of course, more murmuring than a clear expression, because back then there were no languages or literacy. Just a few rough, raw, primitive, elementary verbal instructions such as "hungry, thirsty, sleep, go, hunt, danger" and scribbles around the walls of the caves.

Something distracted the monster's attraction and it turned away or the man saw a deep, tight hollow that gave him shelter, a safe haven from gaping jaws and sharp claws, protection from imminent death, necessary salvation.

Thus, danger and fear were the two basic reasons for introducing the concept of a Supreme Being who can deliver us if we kneel and pray to it. Later, with the development of cultures and civilizations, people expanded religious oeuvre and began to praise the Lord on all possible occasions, for

example: in gratitude for the rich crop, at weddings, births, feasts. Fantastic stories of resurrections, visions and various miracles have been tailored, ceremonial rites have been introduced and a class of those who do not have to work has been created because they are engaged in the study of the heavenly (theologians) or the management of the religious processions and property (priests, gurus, caliphs) which is, as a rule, of generous volume including real estates, stocks, full bank accounts, art pieces, precious metals in all forms - from jewelry to bars, relics and apocrypha of inestimable value. Most important of all, they have become masters of human souls of those who gave them command over their own mind, of those who gave up their intellect in favor of, supposedly, the more cognitively capable. It is disgusting to watch how representatives of the secular state, lacking personal integrity, conform to the clergy. It is indescribably repulsive to listen a lectures by, so-called, religious teachers, regardless of their respective denomination, if that lectures do not have sound, well founded basis in the science.

While the "cognitively capable" spoke of the "Earth and Heaven", pioneering astronomers (Galilei, Huygens, Newton) used telescopes to discover the enormity of the space. While the "cognitively capable" were devising the creation story, physicists were coming upon, until then, esoteric details about the micro-cosmos so that today we know what the nature of the reality is: spacetime, 6 quarks / 6 leptons / 5+1 bosons, anti-matter, physical forces, quanta, Planck sizes, fields, EM spectrum, process of the formation of the chemical elements, extrapolation to the singularity, etc. What the Universe looks like: isotropic, homogeneous, flat, Λ CDM, expanding, 13.8 billion years old, 42 billion light-years in diameter, distances to the Sun 150 million km or 1 AU and Proxima Centauri 4.2 LY, Andromeda 2.5 million LY, the ratio of energy and matter distribution (68% dark energy, 27% dark matter and 5% ordinary matter), what is quantum mechanics and how much influence it has on further scientific and technological development.

1 AU = 150.000.000 km

1 LY = 63.241 AU

astronomicalunits-1.jpg (799×432) (jwwb.nl)

During which time, the "cognitively capable" had, through lies and manipulation, abused their privileged position in almost every society: from East to West, to the North and South, equally brazenly. What is phenomenal to them - science has empirically explained. What is supernatural to them - the rational mind understands in its essence. If it were not for science, people would still believe that meteorological conditions are a reflection of the God's will and thunder and lightning - miracles sent straightly from the heaven.

What is it with all religions that have no basis in God's work? More science has done for the faith than any saint, nuncio or hermit. Just look at that array of titles - and Jesus was, quite simply, the Christ. Look at all these professional theorists - and Jesus was, just, a humble carpenter. Look at their outward splendor, from palaces to taxes, and Christ was and is - the Son of God, nothing more. Nothing more has to be cause sincere love for the Lord does not require a mediator. Does the mother kiss the child, and vice versa, over the pillow? Do lovers kiss each other over the bed sheet? Or directly into the cheeks, mouth, neck, body and elsewhere? When we drink water, do we prefer to drink it from the spring or put rusty pipes in between? Do we prefer to listen to the bird`s song in the forest grove crystal clear, undeceptive and authentic or record it, transfer, postpone and listen to the

n`th reproduction after a long time with impaired quality i.e. weakened sharpness and slurred tone? Remove the rot from your ears, remove the dirt from your lips, remove the veil from your eyes and stop following: explore, learn and debate openly only then will you truly be free and begin to understand yourself, before everything else, and the Nature as it is - not as they are telling you it is.

Do you, religious fundamentalists, know what the parsecond or 1 parsec is? No, you don`t. Instead, you know how to insult me and throw a stone at me. I experienced that. Parsec, it is an astronomical unit of distance introduced to make it easier to express enormous intergalactic lengths. 1 parsec = 3.26 LY or, approximately, 206,000 AU. Kiloparsec is a thousand parseconds, megaparsec is a million parseconds and gigaparsec is 3.26 billion LY which means that the diameter of the visible! Universe is, approximately, 14 gigaparsec. The parsecond definition is the length of the parallax that makes the angle of the angular displacement of the exactly one arcsecond (1 arcsec = 1/3600 degree, 1 arcmin = 1/60).

1 parsec = 206.000 AU

1 parsec = 3.26 LY

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Let's get to the learning through play, fun and work while to the "ora et labora" I add "et studiorum".

Who are the loudest and fiercest promoters of the religious truths? Religious truths - what nonsense! There are no this and that truths: truth is but one, immutable and independent of anyone's interpretation - until we begin to play with temporal branching. Those who kneel in squares and streets, weep in places of the worship, attack human rights and freedoms under the edict of their own endangerment. So they're not safe from themselves until they shackle us other people? Where does their madness end once they're frenzied? There is no end - they are constantly spinning in circles, biting their own tail, repeating the same mantras that, supposedly, open the Third Eye and lead to ecstasy. Religious fundamentalists, most often, are: 1) members of the certain ethnic groups, 2) residents of the unsightly hamlets in the hinterland which move to the urban areas imposing their primitivism and 3) all those who inextricably link the nationality with the specific denomination. I can not be the fullright citizen, not even respected as a human being, if I'm an agnostic? Well, I'm scientist and sceptic too - are you going to burn me on the bonfire? You can't convince me with your silly fairy tales because my language is exclusively the language of the science. Tell phantasies and fables to each other at an altar or in a bar while your brain loses the contours of reason taking on the appearance of an amorphous, hopeless mass. My perspectives are: horizon and beyond. My rudder is the lab equipment! My friends are my companions and never my followers because I do not seek idolatry or wish to create my own cult of personality. It doesn't matter who I am, but the message I am carrying to you: my message is the Truth. My message is the reality that surrounds us, as it is in its nature, and which will not change for the better if we do not act in that (right) direction by ourselves.

You know what the truth is? The truth is that we haven't even reached the 1st stage on the Kardash scale yet. The truth is that there is no real military "joint-effort" of all states on the Earth. The truth is that we have not moved from our backyard, we can barely see our own neighborhood and at the same time, pretentiously and surly, we are talking about transcendent things, beings and phenomena - behind or beyond our grasp. It's like looking at the top of a staircase and not seeing a skateboard one step above.

The only thing which I accept as proven and credible is the life, deeds and way of the Jesus Christ and the fact that his sacrifice left the deep mark on the Christian religion and world culture. Everything else - church hierarchy, ideas, supposed miracles and visions, healings, fundamentalism, fanaticism, extremism - I reject complete religious folklore with unease how someone even dared to devise and spread such nonsense. Even greater discomfort is caused by the realization that a mass of people, incapable of an analytical-critical approach and emotionally unstable, follow empty fables constantly trying to increase their own denomination using illegitimate appeals against the human rights and freedoms, discrimination, mobbing, aggressive marketing (religious symbols or objects at every corner), loud bell noise, intrusive behavior, sneak peeking, malevolent gossip, clamorous denouncement ("She is a witch!" or "There goes a witch!") and, in extreme cases, even brutal violence like slashing with blades, blasting with (home made) explosives and driving trucks in the innocent audience. Or masking their faces at night and delivering "God`s justice" around. No, it is not the God`s justice - it is your own, personal insanity. You are not exerting the God`s will - you are liberating your private madness into the environment.

I have nothing against faith in the everyday life. I see its role but strictly limited to the ethics, organization of masses, weddings and feasts. Certainly its job is not to influence or destabilize the state policy, to call for non-compliance with positive health precautions during the epidemiological crisis

and demolition of the constitutional and legal order - either directly through covert sermons or through the proxies in the form of religiously profiled citizen`s associations. The introduction of the religious education in the public schools is the significant step towards the religiosity of the society that can have, and has, intellectually degrading consequences. There is an evident lack of physicists and resistance to the science strenghtens constantly due to not knowing what it even represents. It is a devastating realization that most people do not know the definition of the science let alone something more about it or in particular.

But it is always the silent majority who, under the brows, approve the crimes and atrocities of their exponents and extremities or, in best case, remain silent during the terror. It was the silent majority back in the Roman Era, it was the silent majority during the WW2 and it is still the silent majority today. When they (Romans) took Jesus along the path to the crucifixion crowd was comprised of the silent majority. When nazis opened concentration camps it was the silent majority in their homeland which didn`t say a word against the horrors committed by their compatriots. When they falsely prosecuted me at my work place it was the silent majority who just stood and watched doing nothing to stop the madness. Under that innocent looking face humanity hides its monstrosity. You do not believe me? Show me the righteous state in the entire history of the mankind and allow me to switch my nationality.

Diderot said: "Man will never be free until the last king is strangled with the entrails of the last priest". I wouldn`t be so radical because it would made us resemble those whom we despise. I would rather say: "...strangled with the boredom of listening to the last foolish sermon ever delivered".

Bureaucracy is also the major problem. Do you know the story about the bureaucrat and the day and the night shift? They tasked the bureaucrat to determine the shift of the day and the night solely based on the papers in which it was written exactly when the day begins and when it ends and when the night begins and when it ends as well as to warn citizens of harmonious behavior meaning that they do the daytime work during the day and to sleep during the night. Sloppy as it was, which is considered a virtue in the ranks of the state bureaucrats, he replaced the papers order: when it was the night he declared the day and when it was the day he declared the night. Consequently, people had to sleep during the day and at night time they went out, worked, studied or had fun. To justified criticism and evident illogicality, the bureaucrat responded in cold-blooded fashion: it does not matter what it is but how I declare it to be!

I dare not to speak about the God: about the Universe yes but only about the visible part. I'm too small, I know too little and we're too less technologically, and spiritually, developed to go a step further let alone... to the Absolute. What is the easiest way to recognize a liar? Immediately when he or she starts telling you about the Most High. There is no (wo)man who has the right to speak of the Supreme. But I have to emphasize certain scopes (without analyzing them here and now): The Tao Te Ching, verbal author: Lao Tsu, definitely the most mystical book I have come across, or perhaps the book chosen me or we were attracted to each other, but in any case it brings interesting digressions such as the indefinite sex ("It" or "That") instead of the traditional religious male ("He" or "Him"), the gradation of virtues versus the redemption of the sins, the concept of an effortless action (also occurs in Buddhism) as diametrically opposed to the motif of the Christian passion, the idea of an infinity of nothingness without a previous cause that gives birth to the multiverse ex nihilo by logical transition, i.e. the initial quantum fluctuation, which becomes a singularity, and teaches life skills like no other sacred record I have read. If I have to choose the religion it's Taoism. But I find extremely beautiful sentences, deep thoughts, in Hinduism, Upanisad and Dhammapada, as well as in the (Zen) Buddhism and in the Christianity.

I was in the Old City of Jerusalem, passed the Way of the Cross, kneeled and prayed in the Churches of the Holy Sepulchre and the Nativity of the Christ. I didn't feel any special energy other than the excitement that I was exactly there, at the very places, which most folks just see on the screen or on the photo.

There is many very interesting relations I see between Nature, life that emerged and evolved in that Nature and the Universe, as the complete entity, one of which is the striking similarity among expansion and contraction of the Universe and physiological process of breathing. Lungs inhale air and expand, then exhale air and contract - in repeating manner, over and over again as long as we are alive. Observe the Universe: now it is expanding - under prevailing influence of the dark energy - perhaps one day it will contract back to the singularity - under prevailing influence of the gravity. Well, it is just one theory among plenty and it could be a coincidence. I have personally chosen, in my previous contemplations, enlargement-to-dissolution version where Cosmos expands until it is so stretched that whatever remained in it, after stars burned out their fuel, all matter has decayed or swallowed by the black holes and spacetime cooled to the absolute zero, becomes insignificantly small in the vast, infinite realm of nothing. Nothing except the vacuum or zero-point energy which could be, through quantum fluctuation(s), source of the new Cosmos. But I admit that lungs theory, or infinite, unbroken cycle of births, deaths and re-births in eternal motion like perfect pendulum can easily be as much true. There is no perfect pendulum one may notice. Not in the spacetime where all is subject to the laws of the physics but outside where such obstacles do not exist - in case of the multi-layer reality where I am talking about the ultimate degree. Keep in mind that whatever is driving this beauty is of transcendent, meta-physical origin and therefore unable of getting tired. Bored maybe, not tired definitely, and perhaps when It is bored: It sleeps and dreams what next to create. Like an artist that has finished one exceptional piece and then thinks

about following. For us it is irrelevant, because we will die before from any possible cause, probably even extinct as a specie, unless the compression catches as sooner. As the matter of fact, when I re-think it now, if enlargement-to-dissolution version is correct than it would be logical for many quantum fluctuations to occur simultaneously due to the infinite size of the spring. That would suggest coalisions of the newly formed Universes or expansion of this could ride in front and hold enough room in between for infants to grow limitless without annoying themselves mutually. Perhaps, I rather switch to the lungs theory. What is the difference: do we stretch or we tuck? Universe is doomed for sure, anyway, who gives a f***!

There is many possible explanations about Universe origin which is exactly why I love the science: we explore, we study, we learn, we think, we re-think, under the influence of the new ideas and proofs, and finally - we change our mind or confirm our previous belief(s) depending in which direction are contemporary arguments and evidences leading us. Science is not fixed until it is fixed like universal laws that haven't changed a bit since the ages: released things still fall from the height downward, speed of the light C didn't alter, atoms consist of the same particles, etc. Faith is opposite: you have predetermined "religious truths" which you must accept and obey the strict clerical hierarchy without any scrutiny, objection or protest.

People often interchange the science theories for the scientific truths. Especially, faith representatives in their religious rethorics or common folks in their foolish misconception. They naively conclude how science is overly flexible: it can be like this or it can be like that. No! You are reffering to the scientific theories which are, by their own nature, subjected to the change, and that is exactly why they are called theories to separate them from the practical facts valid and constituent regardless of the passage of time, political elections or financial crysis. Scientific truths are experimentally proven, tested and re-tested, confirmed and established - and once

established they must still produce the same results whenever the testing is repeated. The scientific truth is the continuously unpenetrable fort or it is not scientific truth but only scientific theory which is significantly lower on the scientific scale of the importance. For example, I can be wrong with both options - dissolution or pendulum - and something third can be found accurate even the simplest or God solution. I have never and I will never dismissed the God as one of the possible origins. As I stated previously, in my the Universe Story text, I firmly consider four potential sources as equally plausible: God, the higher specie, computer simulation and Nature, 1:4 or 25% chances each, none could be proven or disputed, all 4 in the superposition - to express myself in quantum mechanical terms.

Recently, one girl student asked me what does term "plausible" mean? I heard religious debaters asking the same question: what does term "plausible" mean. This was (is) my answer: plausible is half-way between correct and wrong. Plausible is when you foretell that something is right, based on all, majority or the most notable thoughts and informations available so far, but it can not be accepted as the scientific truth because other possibilities could be accurate instead - more or less probable. Hence, term "plausible" belongs to the domain of the scientific theory - not to the domain of the scientific truth. Read previous paragraph for proper distinction among the two. Well, religion is better: it knows that God is. Not plausible, He surely is, we are certain and therefore the faith is superior! Religious debater has collected cheap, rethorical point as usual. Why? Because, actually it is the totally opposite situation: science is superior because it does not make bold statements without solid ground to build foundations upon. In such case, science admits the matter is just theory or mere speculation - not the truth. Not even close! In order to understand this issue, humans must clearly distinct between: scientific theory, accompanied by the term "plausible" among else, and scientific truth, accompanied by the numerous evidence(s) and with the constantly same test results regardless of the place and date of the renewed experiment of the identical substance involved.

One may ask then what is the purpose of the scientific theory if it is only hypothesis about the subject in question and not reality proven beyond any doubt by the standard scientific method? Theory has its, absolutely, deserved place in the science. Most of the discoveries were preceded, anticipated long before they were experimentally conducted. Dirac theorized of positron (anti-electron) which was revealed several years later, Schuster suggested the existence of the anti-matter and 55 years later anti-proton and anti-neutron were disclosed in the laboratories, Einstein postulated his concept of the gravity much prior to the empirical confirmations of his work: e.g. gravitational waves were detected in 2015. by LIGO, approximately 100 years after the famous prediction was made. Although, Einstein is not the original author of the gravitational waves thesis, since I have found certain other names coming earlier such as Heaviside and Poincare, Einstein was the one who best described this phenomenon as ripples propagating through the spacetime tissue incorporating it into his theory of general relativity. Yet I read that he later abandoned the respective idea. I think it was just occasional uncertainty due to the radical implications it encompassed but deep in his heart he still believed in his previous work. Lemaitre calculated and predicted the expansion of the Universe and Hubble observationally confirmed it subsequently. Leibnitz proposed "monads" or that the Universe is made of an infinite number of the simplest substances which are the "ultimate units of existence in the nature" and 250 years later quarks were being discovered experimentally - starting with the Stanford LAC in 1968. Examples are numerous. Why is it surprising that idea comes before an actual effort has been made? Do you first plan or act?

Hence:

In the beginning there was the Word. No!

In the beginning there was the Thought.

And that very Thought came from the Greatest Scientist ever.

Every reasonable, serious scientist realizes that he or she is building upon the foundation(s) layed before by the countless respected experts for which I would need entire lexicon to list. Let it be suffice to universally say: thank you all for contributing! Science is great because of you!